Bruhath Bengalore Mahanagara Palike

Name of Work :- Improvements to roads and drains at Shettyhalli in ward no.12 Shettyhalli Sub Division

Name of Agency : M/S Inchara Construction

Work Order No: EE/DD/WO/28/20-21 **Dated**:29.06.2021

Job Code: 012-21-000013

1st & Final Bill

E-MB

Sl No	Description of Items	No	L	W	D	Quantity	Unit
1	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 (Page No. 146/ Item No.19.55/ PWD SR 2018-19)						
	Measurement Recorded on:						
	For Asphaplt Road						
	6th A Cross AGB Layout	1	15.00	6.00		90.00	
		1	15.00	6.00		90.00	
		1	15.00	6.00		90.00	
		1	15.00	6.00		90.00	
		1	11.00	6.00		66.00	
				Total Qty		**426.00**	**Sqm**

Contractor

Asst Engineer
Ward No 12
BBMP

30.6.21

Asst Executive Engineer
Shettyhalli Sub Division
BBMP
30.6.21

2	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. (P.No.141, I.No.18.47 of KPWD SR 2018-19)						
	Measurement Recorded on:						
	For CC Road						
	Near Kaiwar Temple VR layot	1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	11.50	5.80	0.15	10.01	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	9.50	5.50	0.15	7.84	
		1	15.00	5.50	0.15	12.38	
		1	10.10	5.50	0.15	8.33	

5/7/21.

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	Measurement Recorded on:						
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	14.10	5.50	0.15	11.63	
	Suchithra Apartment Road	1	15.00	6.20	0.15	13.95	
		1	15.00	6.20	0.15	13.95	
		1	15.00	6.20	0.15	13.95	
		1	8.00	6.20	0.15	7.44	
	Shivanna Road Abhigere	1	15.00	7.60	0.15	17.10	
		1	15.00	7.60	0.15	17.10	
		1	15.00	7.60	0.15	17.10	
		1	6.00	7.60	0.15	6.84	
		1	15.00	5.45	0.15	12.26	
		1	15.00	5.45	0.15	12.26	
		1	4.00	5.45	0.15	3.27	
				Total Qty		**445.28**	**Cum**
			As per Agreement Qty			252.18	
			Upto 125% Qty			63.04	
			Above 125% Qty			130.06	
			Total Qty			**445.28**	

Asst Engineer
Ward No 12
BBMP

08.1.21
Asst Executive Engineer
Shettyhalli Sub Division
BBMP

3	KSRD 2.1.1 Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. specification : - do - Ordinary soil(Page No. 6/ Item No. 2.1/ PWD SR 2018-19)						
	Measurement Recorded on:						
	Shettyhalli						
	For Asphalt Road						
	6th A Cross AGB Layout	1	15.00	6.00	0.25	22.50	
		1	15.00	6.00	0.25	22.50	
		1	15.00	6.00	0.25	22.50	
		1	15.00	6.00	0.25	22.50	
		1	11.00	6.00	0.25	16.50	
	For RCC Drain						
	AYR Layout	2	15.00	1.10	1.00	33.00	
		2	15.00	1.10	1.00	33.00	
		2	15.00	1.10	1.00	33.00	
		2	15.00	1.10	1.00	33.00	
		2	15.00	1.10	1.00	33.00	
		2	6.00	1.10	1.00	13.20	

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Measurement Recorded on:						
For RCC Culvert						
	4	5.00	2.00	1.00	40.00	
	4	7.00	2.00	1.00	56.00	
	4	6.00	2.00	1.00	48.00	
For Name Board Pole	18	0.45	0.45	0.45	1.64	
Measurement Recorded on:						
For Asphaplt Road						
6th A Cross AGB Layout	1	15.00	6.00	0.25	22.50	
	1	15.00	6.00	0.25	22.50	
	1	15.00	6.00	0.25	22.50	
	1	15.00	6.00	0.25	22.50	
	1	11.00	6.00	0.25	16.50	
Road Cut portion of BWSSB under water supply	1	15.00	1.10	0.25	4.13	
	1	15.00	1.10	0.25	4.13	
	1	15.00	1.10	0.25	4.13	
	1	15.00	1.10	0.25	4.13	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.10	0.25	4.13	
	1	15.00	1.10	0.25	4.13	
	1	15.00	1.10	0.25	4.13	
	1	8.00	1.10	0.25	2.20	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.20	0.25	4.50	
	1	15.00	1.20	0.25	4.50	
	1	6.00	1.20	0.25	1.80	
	2	15.00	1.10	0.25	8.25	
	2	15.00	1.10	0.25	8.25	
	2	15.00	1.10	0.25	8.25	
	2	8.00	1.10	0.25	4.40	
Measurement Recorded on:						
For CC Road						
Near Kaiwar Temple VR layot	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	11.50	5.80	0.30	20.01	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	9.80	5.50	0.30	16.17	
	1	15.00	5.50	0.30	24.75	
	1	10.10	5.50	0.30	16.67	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	
	1	15.00	5.50	0.30	24.75	

Executive Engineer 16/7/21

Executive Engineer 16/7/21

Executive Engineer 19/7/21

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		1	15.00	5.50	0.30	24.75	
		1	15.00	5.50	0.30	24.75	
		1	15.00	5.50	0.30	24.75	
		1	15.00	5.50	0.30	24.75	
		1	14.10	5.50	0.30	23.27	
	Suchitha Apartment Road	1	15.00	6.20	0.30	27.90	
		1	15.00	6.20	0.30	27.90	
		1	15.00	6.20	0.30	27.90	
		1	8.00	6.20	0.30	14.88	
	Shivanna Road Abbigere	1	15.00	7.60	0.30	34.20	
		1	15.00	7.60	0.30	34.20	
		1	15.00	7.60	0.30	34.20	
		1	6.00	7.60	0.30	13.68	
		1	15.00	5.45	0.30	24.53	
		1	15.00	5.45	0.30	24.53	
		1	4.00	5.45	0.30	6.54	
	For Kerb Stone	2	15.00	0.30	0.20	1.80	
		2	15.00	0.30	0.20	1.80	
		2	15.00	0.30	0.20	1.80	
		2	8.00	0.30	0.20	0.96	
			Total Qty			**1545.79**	
			As per Agreement Qty			**1574.09**	
			Total Qty			**1545.79**	**Cum**

Limited to 1542.79

Contractor

Asst Engineer
Ward No 12
BBMP

Asst Executive Engineer
Shettyhalli Sub Division
BBMP

4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)						
	Measurement Recorded on:						
	Shettyhalli						
	For RCC Drain						
	AYR Layout	2	15.00	1.10	0.15	4.95	
		2	15.00	1.10	0.15	4.95	
		2	15.00	1.10	0.15	4.95	
		2	15.00	1.10	0.15	4.95	
		2	15.00	1.10	0.15	4.95	
	ಸಹಾಯಕ ಅಭಿಯಂತರರು	2	6.00	1.10	0.15	1.98	

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	Measurement Recorded on:						
	For RCC Culvert						
		4	5.00	1.80	0.15	5.40	
		4	7.00	1.80	0.15	7.56	
		4	6.00	1.80	0.15	6.48	
	For Name Board Pole 2x18	36	0.45	0.45	0.15	1.09	
				Total Qty		**47.26**	**Cum**
			As per Agreement Qty			**109.42**	.

Contractor

Asst Engineer
Ward No 12
BBMP

Asst Executive Engineer
Shettyhalli Sub Division
BBMP

5	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Complete as Specification						
	Measurement Recorded on:						
	For CC Road						
	Near Kaiwar Temple VR layot	1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	11.50	5.80	0.15	10.01	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	15.00	5.50	0.15	12.38	
		1	9.60	5.50	0.15	7.92	
		1	15.00	5.50	0.15	12.38	
		1	10.10	5.50	0.15	8.33	
		1	15.00	5.30	0.15	11.93	

5-18

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ವಾರ್ಡ್ ನಂ 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division Bangalore-73

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Measurement Rec						
	1	15.00	5.30	0.15	11.93	
	1	15.00	5.30	0.15	11.93	
	1	15.00	5.30	0.15	11.93	
	1	15.00	5.30	0.15	11.93	
	1	15.00	5.30	0.15	11.93	
	1	15.00	5.30	0.15	11.93	
	1	15.00	5.30	0.15	11.93	
	1	15.00	5.30	0.15	11.93	
	1	15.00	5.30	0.15	11.93	
	1	14.10	5.30	0.15	11.21	
Suchitha Apartment Road	1	15.00	6.20	0.15	13.95	
	1	15.00	6.20	0.15	13.95	
	1	15.00	6.20	0.15	13.95	
	1	8.00	6.20	0.15	7.44	
Shivanna Road Abbigere	1	15.00	7.60	0.15	17.10	
	1	15.00	7.60	0.15	17.10	
	1	15.00	7.60	0.15	17.10	
	1	6.00	7.60	0.15	6.84	
	1	15.00	5.50	0.15	12.38	
	1	15.00	5.50	0.15	12.38	
	1	4.00	5.50	0.15	3.30	
			Total Qty		440.70	
		As per Agreement Qty			252.18	
		Upto 125% Qty			63.04	
		Above 125% Qty			125.48	
		Total Qty			**440.70**	**Cum**

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division, Bangalore-73

Contractor

Asst Engineer
Ward No 12
BBMP

Asst Executive Engineer
Shettyhalli Sub Division
BBMP

6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc , complete excluding cost of steel as per MORTH specification No 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications do- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 PWD SR 2018-19)						
	Measurement Recorded on:						
	Shettyhalli						
	For RCC Drain						
	For RCC Bottom Raft						
	AYR Layout	2	15.00	0.90	0.15	4.05	
		2	15.00	0.90	0.15	4.05	
		2	15.00	0.90	0.15	4.05	
		2	15.00	0.90	0.15	4.05	
		2	15.00	0.90	0.15	4.05	
		2	6.00	0.90	0.15	1.62	

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	Measurement Recorded on:						
	For RCC Culvert						
		4	5.00	1.50	0.20	6.00	
		4	7.00	1.50	0.20	8.40	
		4	6.00	1.50	0.20	7.20	
	Measurement Recorded on:						
	For RCC Wall						
	AYR Layout	4	15.00	0.15	0.75	6.75	
		4	15.00	0.15	0.75	6.75	
		4	15.00	0.15	0.75	6.75	
		4	15.00	0.15	0.75	6.75	
		4	15.00	0.15	0.75	6.75	
		4	6.00	0.15	0.75	2.70	
	Measurement Recorded on:						
	For RCC Culvert						
		8	5.00	0.20	0.60	4.80	
		8	7.00	0.20	0.60	6.72	
		8	6.00	0.20	0.60	5.76	
			Total Qty			**97.20**	**Cum**
			As per Agreement Qty			**234.00**	

Contractor

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division Bangalore-73

Asst Engineer
Ward No 12
BBMP

Asst Executive Engineer
Shettyhalli Sub Division
BBMP

7	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 (I No-28.8.2,P No-229 PWD SR 2018-19)			
	Measurement Recorded on:			
		Total Qty	**7.82**	**Tonne**
		As per Agreement Qty	**14.43**	

Contractor

Asst Engineer
Ward No 12
BBMP

Asst Executive Engineer
Shettyhalli Sub Division
BBMP

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8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete (Data Rate)						
	Measurement Recorded on:						
	Shettyhalli						
	For RCC Drain						
	AYR Layout	2	15.00	0.90		27.00	
		2	15.00	0.90		27.00	
		2	15.00	0.90		27.00	
		2	15.00	0.90		27.00	
		2	15.00	0.90		27.00	
		2	6.00	0.90		10.80	
	Missing Slabs	1	3.00	0.90		2.70	
			Total Qty			**148.50**	**Sqm**
			As per Agreement Qty			**490.50**	
	Data Rate	**1615.00**					

Contractor

Asst Engineer
Ward No 12
BBMP

Asst Executive Engineer
Shettyhalli Sub Division
BBMP

9	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to IS9103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)						
	Measurement Recorded on:						
	New Precast Slab						
	For Culvert						
		4	5.00	1.50		30.00	
		4	7.00	1.50		42.00	
		4	6.00	1.50		36.00	
			Total Qty			**108.00**	**Sqm**
			As per Agreement Qty			**108.00**	
	Data Rate	**3874.00**					

Contractor

Asst Engineer
Ward No 12
BBMP

Asst Executive Engineer
Shettyhalli Sub Division
BBMP

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